DOCUMENT RESUME

ED 092 140 IR 000 700

TITLE	Proceedings of the Conference on Computer Based Living-Learning and Information Exchanges.
INSTITUTION	North Western Univ., Evanston, Ill. Center for the Teaching Professions.
PUB DATE	4 Dec 73
NOTE	22p.
EDRS PRICE	MF-$0.75 HC-$1.50 PLUS POSTAGE
DESCRIPTORS	Computer Oriented Programs; Computer Programs; *Computers; Conference Reports; Dial Access Information Systems; *Information Networks; Information Sources
IDENTIFIERS	Computer Mediated Conference; Learning Webs; Peoples Computer Company; Resource One; Terminet

ABSTRACT

The text of an extended series of computer-mediated conversations makes up the body of this document. Discussion centers around the uses of computer networks as a new communication medium. Contributions were made by participants, who typed their informal comments into computer terminals, located at several places in the country. Because of the computer-mediated format, the text is often broken and hard to follow. This difficulty is compounded by the fact that several fragmented conversations were reproduced in the final document in the order in which they were entered into the system, with no editing of any kind. A list of names and addresses of participants is included at the beginning of the report. (WDR)

ED 092140

NORTHWESTERN UNIVERSITY

EVANSTON, ILLINOIS 60201

THE CENTER FOR THE
TEACHING PROFESSIONS

TELEPHONE: 492-3621

Computers And Teaching

Proceedings of the Conference on Computer Based Living-Learning and Information Exchanges.

4 December, 1973

I wish to thank all of you who participated in the Conference on Living/learning information exchanges November 26th. As a result of that conference I believe we all have a better idea exactly what's going on in the field today. A proposal has now been completed for a Chicago metropolitan area (computerized) learning exchange, and we will know about its outcome within a few months.

Following are the names of people who physically attended the conference. And the last part of this document is a full printout of the computerized conference taken just before it failed us Tuesday morning. Live and learn!

participants:

Chuck Zemeske	4 Garden Ct Prospect Heights, IL 60070
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A few more names and address are contained in the pages of the computerized conference which follow. We really are appreciative of the time spent trying to communicate through this medium -- we hope it will serve as an adequate communications device in conjunction with these printed proceedings.

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>
 DAYFILE AS OF  12.42.49.
 SKY0CM♦    2     1     0  17
 SKY ,CM1,CH UF2660-♦♦♦♦.SKY


 CONTROL CARDS:
 ? %$CAI


  11/28/73  12.43.00.
 ♦♦♦H5
 TYPE YTUR NAMEME?
 WHAT TYPE OF DATA-TERMINAL ARE YOU USING?
 ? TTY
   LOADING HYPERTEXT
  11/28/73  12.43.36.
   WELCOME TO HYPERTEXT
   ,SKY
   YOUR CLASS IS RESTRICTED
   TO THE FOLLOWING LESSON...
  11/28/73  12.43.46.
   WELCOME TO THE CONFERENCE
   ON LIVING/LEARNING INFORMATION EXCHANGES.

   THE COMPUTER-CONFERENCING SYSTEM IS
   AVAILABLE AGAIN, AFTER TEMPORARY TROUBLE ON TUESDAY.
   WE HAD TO RETREAT TO THE STATUS AS OF MONDAY NIGHT!
   PLEASE RE-ENTER COMMENTS MADE TUESDAY.
  11/28/73  12.43.53.
   ON-LINE COMPUTER CONFERENCE
   TYPE "HELP" (OR PRESS THE HELP-KEY) FOR INSTRUCTIONS, OR
   TYPE YOUR NAME TO BEGIN THE CONFERENCE...

 >C.A.T.
   OK
   YOUR NAME IS NEW TO THIS CONFERENCE.
   HAVE YOU EVER USED IT BEFORE?

 >NO
   OK
   THE CONFERENCE DIRECTORY IS FULL...
   THIS MEANS THAT YOU WILL HAVE TO KEEP YOUR
   OWN RECORDS ON WHEN YOU PARTICIPATED.
   PLEASE NOTE THE DATE TODAY, WHICH IS " 11/28/73    ".
   HAVE YOU PARTICIPATED IN THIS CONFERENCE BEFORE?

 >NO
   OK
   DO YOU WISH TO...
   1. SEE ENTIRE TEXT OF CONFERENCE SO FAR
      (APPROXIMATELY 1000.   LINES).
   2. SEE TEXT BEGINNING ON A SPECIFIC DAY.
   3. SKIP TEXT ALTOGETHER.

 >1
   OK
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11/20/73 19.11.54.JIM SCHUYLER
BEGINS PARTICIPATING

11/20/73 19.13.59.JIM SCHUYLER
HERE ARE SOME SUGGESTIONS FOR DISCUSSION ---
♦♦♦ THIS IS A CONTINUING CONFERENCE ON COMPUTER-BASED LIVING/LEARNING INFORMATION EXCHANGES.
A SET OF PRINTED ARTICLES WILL BE SENT TO THOSE WHO LEAVE THEIR NAMES AND ADDRESSES IN THE CONFERENCE.
READ IVAN ILLICH'S "DESCHOOLING SOCIETY" FOR A GOOD DESCRIPTION OF WHAT A "LEARNING WEB" IS (WHICH IS VERY CLOSE TO THE TOPIC OF THIS DISCUSSION.

11/20/73 19.15.23.JIM SCHUYLER
TOPIC 1 --- COMPUTERS CAN STORE INFORMATION ON PEOPLES' ABILITIES AND INTERESTS AND THEN MATCH (PAIR) THESE PEOPLE.
IN ADDITION, INFORMATION ON RESOURCES SUCH AS SCHOOLS, BOOKS, ETC. COULD BE STORED. THE COMPUTER BECOMES THE "LIBRARY CARD CATALOG" FOR A LEARNING SYSTEM.

11/20/73 19.16.19.KEN NOVAK

BEGINS PARTICIPATING

11/20/73 19.16.23.JIM SCHUYLER
TOPIC 2 --- WHY COMPUTERIZE ANYWAY?
THIS CAN ALL BE DONE BY HAND, ON 3 BY 5 CARDS. THOUGH IT IS FASTER TO HAVE THE COMPUTER SEARCH FOR INFORMATION, PEOPLE CAN DO IT CHEAPER. WHAT ADVANTAGE DOES THE COMPUTER HAVE?

11/20/73 19.16.38.JIM SCHUYLER
HELLO KEN NOVAK. WHERE ARE YOU?

11/20/73 19.17.40.JIM SCHUYLER
IF YOU ENCOUNTER A "HYPERTUTOR" ERROR. PLEASE TYPE %LOGOUT THEN SIGN ON AGAIN USING "UF2680-6589" AND YOUR INITIALS, JUST FOR TONIGHT. OLD CHARGE NUMBER WILL BE FIXED FOR TOMORROW.

11/20/73 19.18.32.JIM SCHUYLER
YOU WILL HAVE TO ASK FOR LESSON ♦TALKO WHEN THE "JOTTO" NAME APPEARS ON THE SCREEN AFTER SIGN-ON.

11/20/73 19.19.27.KEN NOVAK
KEN DAVIS SPEAKING. MYCLASS AND I ARE TOGETHER RIGHT NOW. MUCH EXCITEMENT ABOUT THE UPCOMING CONFERENCE. ONE QUJICK QUESTION-- IN WHAT BLDG. WILL THE CONFERENCE BE HELD?
@

11/20/73 19.19.54.JIM SCHUYLER
TOPIC 3 -- PLATO-IV IS A GIANT COMPUTER-BASED LEARNING SYSTEM. IT WILL EVENTUALLY RUN MORE THAN 1000 TERMINALS. KIDS WILL BE LINKED TOGETHER, TAKING LESSONS PROGRAMMED ON THE COMPUTER. SUCH A SYSTEM WOULD PROVIDE A GOOD BASE FOR AN EXCHANGE SUCH AS THAT WE'RE TALKING ABOUT.

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11/20/73 19.20.46.JIM SCHUYLER
BE SURE TO PRESS "RETURN" EVERY MINUTE OR SO TO KEEP GETTING MY MESSAGES.

11/20/73 19.21.18.JIM SCHUYLER
DID YOU GET PRINTED MATERIALS I SENT YOU, KEN?

(3)

11/20/73 19.22.32.KEN NOVAK
YES, JUST THE STUFF ON THIS COMPUTERIZED CONFERENCE. NOT YET THE STUSTUFF TO REPRODUCE FOR PARTICIPANTS.

11/20/73 19.23.49.JIM SCHUYLER
BEGINS PARTICIPATING

11/20/73 19.26.21.JIM SCHUYLER
WE SENT TWENTY PAGES OF STUFF ON MONDAY TO EVERYBODY WE KNOW IS COMING.
AND TO MANY COMPUTERIZED-CONFERENCEES.

11/20/73 19.27.25.JIM SCHUYLER
I WOULD LIKE (IF YOU WOULD) A SHORT DESCRIPTION OF WHAT YOU'RE THINKING OF FOR UNIV. OF MICHIGAN ALONG LEARNING EXCHANGE LINES. WHAT DO YOU KNOW OF SPECTA-CENTER AND WHAT THEY'RE DOING? WE HAVE NOT BEEN ABLE TO GET EVEN A PINCH OF INFORMATION ABOUT SPECTA YET !!

11/20/73 19.28.14.JIM SCHUYLER
PEOPLE AT RESOURCE ONE (SAN FRANCISCO) WILL BE PARTICIPATING IN THIS CONFERENCE PROBABLY ON WEDNESDAY OR LATER. COULD WE ALSO GET A SHORT DESCRIPTION OF RESOURCE ONE'S ACTIVITIES IN THE LEARNING-WEB AREA?

11/20/73 19.30.57.KEN NOVAK

BEGINS PARTICIPATING

11/20/73 19.31.55.JIM SCHUYLER
:

11/20/73 19.34.15.KEN NOVAK

BEGINS PARTICIPATING

11/20/73 19.37.34.JIM SCHUYLER
TOPIC --- HOW MUCH WILL PEOPLE PAY FOR LEARNING-EXCHANGE SERVICES?
DO YOU THINK PEOPLE WOULD PAY 25 CENTS? OR IS THE PRICE OF A PAPERBACK $.95 TO $1.25) REASONABLE?
WOULD YOU RATHER BUY A NEW SCIENCE-FICTION BOOK OR MEET SOMOBODY WHO COULD TEACH YOU TO PLAY THE GUITAR?
(THE GUITAR COMES THROUGH THE LEARNING EXCHANGE!)

11/20/73 19.40.47.JIM SCHUYLER

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11/20/73 19.42.04.KEN NOVAK
WE'VE BEEN KICKED IN AND OUT OF HYPERTEXT A COUPLA TIMES. IT GETS KINDA FRUSTRATING!! WE'RE NOW ON UF2680.
OUR GROUP CALLS ITSELF THECOUZENS MACHINE. WE'RE UILDING A COMPUTER-BASED INFORMATION EXCHANGE/SYSTEM WITHIN A DORMITORY AT U>M. THIS SEMESTER WE'RE DOING IT MANUALLY (ONE FILE OF INTEREST-MATCHING, ANOTHER OF UPCOMING EVENTS IN SEVERAL CATEGORIES. BEGINNING IN JANUARY WE'LL HAVE A TERMINAL IN THE BLDG. TO DO THOSE, AND OTHER INFO. SVCS. BY COMPUTER. I KNOW A LITTLE ABOUT SPECTA-CENTER FROM EARLY CONVERSATIONS WITHITS FOUNDERS, BUT I HAVEN'T HEARD ANYTHING RECENTLYH. SEVERAL FOLKS HAVE TOLD ME THE SAME THING--THAT THEY HAVEN'T BEEN ABLE TO CONTACT THEM.

11/20/73 19.43.28.JIM SCHUYLER
TOPIC --- MINI-COMPUTER VS MAXI-COMPUTER
LOTS OF PEOPLE PREFER TO STORE THEIR OWN INFORMATION ON A SMALL COMPUTER UNDER THEIR OWN CONTROL. OTHERS LIKE THE ADVANTAGES OF A VERY LARGE SYSTEM, IN WHICH MUCH MORE INFORMATION COULD BE STORED. SMALLER COMPUTERS CAN BE LINKED TOGETHER TO FORM NETWORKS (BUT, OF COURSE, EACH NODE IN THE NETWORK MUST BE FUNCTIONING FOR ITS INFORMATION TO BE AVAILABLE TO OTHERS). WHICH DO YOU PREFER ?

11/20/73 19.44.49.KEN NOVAK
WE'RE LEAVING HERE AT 0300 EST IN TWO CARS, EXPECTING ALONG DIVE (MAKE THAT DRIVE) AT 50 MPH. HAVE LOTS OF COFFEE WAITING.

11/20/73 19.45.04.JIM SCHUYLER
THANK YOU FOR STICKING WITH IT AND WEATHERING THE STORM. THE TROUBLE IS THAT WE'VE SPECIFIED TOO LITTLE TIME ON THE 6766 ACCOUNT AND CAN'T FIX IT UNTIL 10 A.M. WEDNESDAY MORNING.

11/20/73 19.47.11.JIM SCHUYLER
THAT CERTAINLY IS EARLY MORNING!
BEST WAY TO EVANSTON IS ON EDEN'S EXPRESSWAY (IT'S RTE. 94) TO DEMPSTER STREET, TAKE DEMPSTER EAST (TOWARD LAKE) UNTIL YOU REACH EVANSTON. GO NORTH ON CHICAGO AVENUE UNTIL YOU REACH FOSTER STREET (YOU ARE THEN ON THE MAP WE ARE SENDING).

11/20/73 19.48.07.JIM SCHUYLER
FOR THOSE OF YOU WHO ARE NOT COMING -- WE ARE VIDEOTAPING THE CONFERENCE AND WILL TRY TO CONDENSE TO A ONE-HOUR TAPE. ANYONE MAY HAVE A COPY AT COST (ROUGHLY $30 ?).

11/20/73 19.48.30.KEN NOVAK
UTHANKS.

11/20/73 19.52.23.JIM SCHUYLER
IVAN ILLICH HAS A NEW BOOK "TOOLS FOR CONVIVIALITY", WHICH CONTINUES FROM HIS SATURDAY REVIEW OF EDUCATION ARTICLE LAST SPRING. HIS TERM "CONVIVIALITY" MEANS AUTONOMOUS AND CREATIVE INTERCOURSE AMONG PEOPLE (OPPOSITE OF INDUSTRIAL PRODUCTIVITY). HE, OF COURSE, VIEW LEARNING-WEBS AS CONVIVIAL TOOLS, AMONG OTHER THINGS.

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11/20/73 19.53.46.JIM SCHUYLER
I HAVE TO GO PUT MY BABY TO BED. JUST A MOMENT... KEEP TYPING IF YOU LIKE. THIS IS ONE OF THE BENEFITS OF BEING ABLE TO TAKE A COMPUTER TERMINAL HOME TO WORK ON. DO YOU THINK THINGS WILL EVER GET TO THE POINT WHERE MANY PEOPLE WILL HAVE TERMINALS AT HOME? (IF CABLE-TV FREAKS HAVE THEIR WAY, COMPUTER-CONTROLLED CABLE TV WILL MAKE CHEAP HOME TERMINALS POSSIBLE!)

5

11/20/73 19.57.20.KEN NOVAK
THANKS FOR STIDCKING AROUND. (BY THE WAY, I'VE SEEN A CHEAP ATTACHMENT TI TI TO A TV THAT ALLOWS PHONE HOOKUYP TO A COMPUTER. I HEAR THEY ARE A PR

CHEAP ITEM.) GOOD NOGHT!

11/20/73 21.26.59.KEN NOVAK

BEGINS PARTICIPATING

11/21/73 11.10.10.JIM SCHUYLER
BEGINS PARTICIPATING

11/21/73 11.15.46.JIM SCHUYLER
THE PREVIOUS CONVERSATION TOOK PLACE TUESDAY NIGHT,
AND INVOLVED A CLASS AT U. OF MICHIGAN. IN ANN ARBOR.

11/21/73 15.28.35.JIM SCHUYLER
BEGINS PARTICIPATING

11/21/73 20.50.38.JIM SCHUYLER
BEGINS PARTICIPATING

11/21/73 23.26.08.RESOURCE ONE
BEGINS PARTICIPATING

11/21/73 23.42.12.RESOURCE ONE
THIS IS LEE FELSENSTEIN OF RESOURCE ONE SPEAKING. THIS IS OUR FIRST ATTEMPT AT USING THE ORACLE SYSTEM (WHAT DID THAT OK MEAN?). WE WILL BE PARTICIPATING USING OUR XDS-940 TIMESHARING SYSTEM. WE HOPE TO MAKE THE CONFERENCE A KIND OF SUB-CONFERENCE HERE, SINCE WE WILL BE ABLE TO ACCCOMMODATE SEVERAL PEOPLE BUULDING COMMENT FILES ON OUR EDITOR PROGRAM AND SHIPPING THESE COMMENTS OFF POAXXX POST-HASTE DURING OUR CONNECT TIME. LIKEWISE WE WILL BE ABLE TO ACCUMULATE FILES OF COMMENTS FROM EVANSTON AND WILL PRINT THESE UP ON OUR HIGH-SPEED PRINTER SO THAT PARTICIPANTS HERE MAY READ AND ABSORB AT LESS THAN 30 CPS.WE ARE INVITING SEVERAL PEOPLE FROM ALTERNATTIVE EDUCATION CIRCLES.
WE ALSO HOPE TO STIR UP ENOUGH INTEREST IN LOCAL PEOPLE SO THAT THEUY WILL BE INTERESTED IN STARTING A BAY AREA LEARNING EXCHANGE, HOPEFULLY USING OUR MACHINE AND ITS INFORMATION-RETRIEVAL SYSTEM (ROGIRS). WE HAVE BEEN OPERATING 9 VERSION OF THIS SSYSTEM AS A PUBLIC-ACCESS DATA BASE IN A RECORD STORE LOBBY IN BERKELEY FOR OVER A HUNDRED DAYS, LETTING JUSTPLAINFOLKS COME UP AND USE IT LIKE AN ELECTRONIC BULLETIN BOARD. IT WORKS!! PEOPLE SMILE AS SOON AS

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11/21/73 23.50.33.RESOURCE ONE
THEY ARE TOLD THAT IT'S A COMPUTER AT THEIR SERVICE, AND WE HAV E ACCUMULATED ABOUT 700 ITEMS ON THE DATA BASE SO FAR (ITEMS EXPIRE, TOO, SO THERE'VE BEEN MANY MORE ENTERED IN TOTO).
YOU SEARCH FOR YOUR ITEM BY TELLING THE COMPUTER TO FIND ALL ITEMS SATISFYING A PARTICULAR COMBINATION OF KEYWORDS WHICH YOU SPEC IFY. KEYWORDS ARE DETERMINED SOLELY BY THE PERSON WHO ENTERS AN ITEM AND CAN BE ANY STRING OF CHARACTERS. THE TERMINAL TELLS THE USER HOW MANY ITEMS HAVE TURNED UP SATISFYING A GIVEN KEYWORD SET. EXAMPLE:
FIND RIDE EAST (NOTE: 'AND' IS IMPLIED BY NO CONNECTING WORD BETWEEN KEYWORDS);
13 ITEMS FOUND (THIS IS THE RESPONSE FROM THE MACHINE)
AND NEW YORK OR NY (THIS SI THE USER NARROWING THE SEARCH. ACTUALLY A MISTAKE HAS BEEN MADE HERE, THE MACHINE WILL ADD TO THE LIST OF ITEMS HAVING KEYWORDS RIDE, EAST, NEW, YORK, THE SUM OF ALL THE ITEMS HAVING KEYWORD NY. ANYHOW , ENOUGH DETAIL).
THE USER TYPES 'PRINT ALL' OR 'PRINT 1' IF THEY WANT TO SEE ALL OF THE FOUND ITEMS OR JUST THE FIRST ONE, REESPECTIVELY.
HXX THE USER MAY ADD AN ITEM AT ANY TIME. THERE IS NO PRESET FIELD STRUCUTRE OR LIMITED SET OF KEYWORDS. THE SYSTEM CAN PRINT

11/21/73 23.58.43.RESOURCE ONE
AN ALPHABETIZED LIST OF KEYWORDS CURRENTLY IN USE AT ANY TIME.
THIS LIST IS KEPT BY THE BERKELEY TERMINAL.
WE THINK THAT THIS SYSTEM CAN BE USED AS IS FOR FILING IN A LEARNING EXCHANGE. IT IS IMPORTANT TO NOTE THAT THE SYSTEM MAKES O NO JUDGEMENTS, BUT IS SIMPLY A VERY TALENTED FILE CLERK THAT DOESN7T KEEP YOU EWWAITING. WEA RE READY TO OFFER TERMINALS INTO OUR SYSTEM TO LOCAL USERS WHO CAN PARTICIPATE IN PAYING OUR COSTS. (WE ARE NONPROFIT, THE MACHINE AND A STARTUP GRANT WERE DONATIONS, BUT OPERATING MONEY IS NOT ASSURED).
WE WILL BE REFINING THE INFORMATION RETRIEVAL SYSTEM AN D HOPE TO BE ABLE TO MOVE IT OFF TO A MINNICOMPUTER SYSTEM IN THE FUTURE (EQUIPMENT COSTS - $50,000 FOR SYSTEM SERVING 64 SIMULTANEOUS USERS AND CAPABLE OF STOPING SEVRAL MILLION ITEMS XXX WHOOPS, THAT WOULD BE ABOUT 100-200,000 ITEMS AT 200 AVERAGE CHARACTERS PER ITEM) AND WILL BE EAGER AND ABLE TO MANUFACTURE SUCH SYSTEMS WHICH REQUIRE NO DAILY MAINTENANCE. WHY NOT HAVE EVEYRTHING?
OUR ADDRESS IS 1330 HOWARD ST., SAN FRANCISCO CA, 94103, AND OUR PHONE IS (415)-864-8663.OFF FOR NOW.

11/22/73 00.02.41.RESOURCE ONE
BEGINS PARTICIPATING

11/23/73 12.33.04.GORDON B THOMPSON
BEGINS PARTICIPATING

11/23/73 12.45.34.GORDON B THOMPSON
I CAN'T MAKE THE CONFERENCE EXCEPT VIA A TERMINAL. THE ADDRESS IS+ BELL NORTHERN RESEARCH, OTTAWA, CANADA...POST OFFICE BOX 3511, STN. C.
INCIDENTLY, I'M USING A CRT THIS TIME, AND I GOT STUCK IN A LOOP AT THE BEGINNING UNTIL I LIED AND SAID IT WAS A PRINTING TERMINAL.
HAVE READ ALL OF ILLICH. GREAT STUFF. HE'S ONE OF THE FEW THINKERS WHO RECOGNIZES THE SIGNIFICANCE OF THE SWITCHED TELEPHONE NETWORK AS OPPOSED TO THE MASS MEDIA THING. OUR PRESENT CHALLENGE IS TO GET GRAPHICS INTO A FORM THAT WOULD EXCITE STAFFORD BEERS, IVAN ILLICH AND MARSHAL MCLUHAN! WISH US LUCK!
FINISH

11/23/73 12.50.13.GORDON B THOMPSON
BEGINS PARTICIPATING

11/23/73 18.04.47.JIM SCHUYLER
BEGINS PARTICIPATING

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11/23/73 18.11.12.JIM SCHUYLER
THANK YOU, LEE FELSENSTEIN, FOR SO MUCH INFORMATION ABOUT RESOURCE ONE!
LEE -- DO YOU KNOW WHETHER BERKELEY HAS ON-LINE CAPABILITIES ON
THEIR COMPUTER (WHICH I UNDERSTAND IS A CDC 6400, AND THEREFORE WE
COULD RUN OUR STUFF ON IT)?

11/23/73 18.15.47.JIM SCHUYLER
RESOURCE ONE'S SYSTEM SEEMS TO BE VERY FLEXIBLE -- I LIKE THE IDEA
OF NOT SPECIFYING "DESCRIPTORS" IN ADVANCE -- THAT'S THE WAY OUR
PEOPLES' DATA BANK WORKS HERE. I HOPE I CAN GET THE BANK WORKING
FOR THE CONFERENCE MONDAY.

11/23/73 18.29.36.JIM SCHUYLER
I SEE KARL ZINN HAS PARTICIPATED, THOUGH BEFORE MOST OF THE ITEMS WERE
ENTERED FOR DISCUSSION. PERHAPS YOU KNOW THAT THIS CONFERENCING
PROGRAM IS A PART OF A COMPUTER-AIDED-INSTRUCTION SYSTEM, THOUGH IT
COULD BE USED IN ANY GENERAL-PURPOSE TIME-SHARING SYSTEM. THE PLATO-IV
SYSTEM, WITH ABOUT 200 TO 300 TERMINALS NOW CONNECTED ALSO HAS SOME

CONFERENCING PROGRAMS LIKE THIS -- ONE (CALLED "TALKOMATIC") IS FOR
SIMULTANEOUS PARTICIPATION (SYNCHRONOUS CONFERENCING) AND ANOTHER
(CALLED "DISCUSS") IS FOR ASYNCHRONOUS CONFERENCING (STORING ITS
COMMENTS AS IT GOES). THESE MAKE IT POSSIBLE FOR SITES LIKE
NORTHWESTERN (180 MILES FROM URBANA) TO CONVERSE FREELY WITH PEOPLE
AT OTHER PLATO SITES, WITHOUT GOING THROUGH THE HASSLE OF A LONG-DISTANCE
PHONE CALL. THEY ARE EXTREMELY USEFUL!
THUS, CONFERENCING IS ALREADY AN IMPORTANT PART OF THE LARGEST C.A.I.
SYSTEM BUILT TO DATE!

11/23/73 18.38.49.KIRK BRAINERD
BEGINS PARTICIPATING

11/23/73 19.09.28.JIM SCHUYLER
PRINTED COPIES OF THIS ENTIRE CONFERENCE WILL BE AVAILABLE...

11/23/73 19.11.29.KIRK BRAINERD
HI I'M SPEAKING FROM A SMAX MEETING AMONG MEMBERS OF MEMO FROM TURNER OXX

SOUR ADDRESSES: BOB SMITH, GENEVIEVE MARCUS OF EXPERIMENTAL CITIES: 11747

KIRK BRAINERD OF TIE LINE: 719 KENSINGTON ROAD , SANTA MONICA, CALIF. 90405

MIKE MURNAM>(N↑? NE, THAT IS MURNANE, ↑OF MEMM FROM TUR↑ER, TORONTOO:↑P 4 M

EXPERIMENTAL CITIES, INC IS IN THE PROCESS OF ORGANIZING EXPERIMENTAL CITY,

THROUGHOUT
11/23/73 21.24.55.JIM SCHUYLER
KIRK -- PERHAPS YOU ARE HAVING TRANSMISSION PROBLEMS -- WE HAD TROUBLE
WITH THE COMPUTERIZED CONFERENCE -- CAN YOU PLEASE LIMIT YOUR LINES TO
LESS THAN 80 CHARACTERS? THAT SEEMS TO HAVE CAUSED THE TROUBLE... I
CAN'T UNDERSTAND THE COMMENT YOU LEFT ABOVE -- PLEASE REPEAT NAMES AND
ADDRESSES FOR THE RECORD.

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11/23/73 21.56.20.JIM SCHUYLER
BEGINS PARTICIPATING

11/24/73 15.24.49.BERT LIFFMANN
BEGINS PARTICIPATING

11/24/73 16.34.34.KARL ZINN

BEGINS PARTICIPATING

11/24/73 16.43.17.BOB ARMSTRONG
BEGINS PARTICIPATING

11/24/73 18.28.14.JIM SCHUYLER
BEGINS PARTICIPATING

11/24/73 18.35.14.JIM SCHUYLER
BEGINS PARTICIPATING

11/24/73 18.55.58.RESOURCE ONE
BEGINS PARTICIPATING

11/24/73 19.03.32.RESOURCE ONE
WE
RESOURCE ONE

11/24/73 19.04.47.RESOURCE ONE
I CAN'T SE MY ECHOES, BUT THIS IS LEE FELSENSTEIN
OF RESOURCE ONE, WE ARE TRYING TO RIG
UP A SETUP WITH OUR XDS-940
TO ALLOW MULTIPLE PARTICIPATION FROM HERE
WISH US LUCK. PROBLEMS, SO THIS IS
BEING DONE ON TELETYPE. GOODNIGHT

11/26/73 10.16.42.CARTER

BEGINS PARTICIPATING

11/26/73 11.02.56.KARL ZINN

BEGINS PARTICIPATING

11/26/73 11.10.31.JOHANSEN

BEGINS PARTICIPATING

11/26/73 11.16.27.BOB JOHANSEN
BEGINS PARTICIPATING

11/26/73 11.22.13.KARL ZINN
I WILL BE ON AND OFF DURING THE AFTERNOON, TOO KEEP TRACK OF THE
CONFERENCE. AT THIS TIME I HAVE NO COMMENTS TO PUT IN.

11/26/73 11.38.45.KARL ZINN

BEGINS PARTICIPATING

11/26/73 11.45.22.BOB JOHANSEN
HI . . THIS IS BOB JOHANSEN AT INSTITUTE FOR THE FUTURE (2725 SAND HILL
ROAD, MENLO PARK, CALIFORNIA 94025)

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 11/26/73  11.48.28. HELP

BEGINS PARTICIPATING

 11/26/73  12.05.51.RESOURCE ONE
BEGINS PARTICIPATING

 11/26/73  12.16.29.JIM SCHUYLER
BEGINS PARTICIPATING

 11/26/73  12.24.47.JIM SCHUYLER
 TTTTO GORDON THOMPAON FROM BEVERLY FRIEND
WHO IS STAFFORD BEERS

 11/26/73  12.26.33.PGF

BEGINS PARTICIPATING

 11/26/73  12.50.06.PGF

BEGINS PARTICIPATING

 11/26/73  12.50.25.JIM SCHUYLER
  SUSAN KORN
1

 11/26/73  12.52.21.JIM SCHUYLER
BERT LIFFMANN
1

 11/26/73  12.59.18.BERT LIFFMANN
BEGINS PARTICIPATING

 11/26/73  13.03.15.BERT LIFFMANN
TO MIKE MURNANE AT RESOURCE 1
COME NOW GENTLEMEN....YOUR LOVE IS ALL AWE CRAVE....
CAN YOU PASS ON SOME INFORMATION ON KIRKS DIALOGUEING PROGRAM

 11/26/73  13.26.31.ALPHONSE THE TURTLE
BEGINS PARTICIPATING

 11/26/73  13.39.46.ALPHONSE THE TURTLE
BOB JOHANSEN -- RON GERT SAYS HELLO !!!

 11/26/73  13.44.01.RESOURCE ONE
BEGINS PARTICIPATING

 11/26/73  13.55.49.ANDREW CLEMENT
BEGINS PARTICIPATING

 11/26/73  14.02.23.RESOURCE ONE
BEGINS PARTICIPATING

 11/26/73  14.27.49.KARL ZINN

BEGINS PARTICIPATING
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(10)

11/26/73 14.44.11.KARL ZINN
I LIKE THE IDEA OF ON LINE CONFERENCING, OR IN GENERAL, TELECONFERENCING. POTENTIALLY IT BRINGS PEOPLE TOGETHER AT LESS EXPENSE, AND LEAVES A TRAVE (TRACE OF INTERACTION, AND THE INTERIM STORAGE OF MESSAGES AND COMMENENTS CAN AID INTERACTION WHEN TWO PERSONAL SCHEDULES DO NOT MATCH. I HOPE SUCH CONFERENCE ACTIVITY ALSO WILL BRING ABOUT MORE THOUGHTFUL STATEMENT OF IDEAS AND MORE CAREFUL CRITICISM. HOWEVER, THE COMPUTER PROGRAMS SHOULD DO MUCH TO AID IN THIS. FOR EXAMPLE, WITHIN THIS CONFERENCE FILE, OR ANOTHER FILE, COULD I LIST AN AGENDA OR SET OF ISSUES (WITHOUT LISTING ALL PROCEEDECEDING ENTIRES)? CAN I LIST ALL CURRENT OR PREVIOUS PARTICIPANTS? CAN I SEARCH PREVIOUS ENTRIES BY PARTICIPANT, KEYWORD OR CONTENT (AS WELL AS DATE)? CAN 2 OR MURE PARTICIPATNS WORK ON A COMMON STATEMENT? AND SO ON. PERHAPS MUCH CAN BE LEARNED FROM EXPERIENCES WITH THE PLATO SYSTEM AND WILL ENGELBART'S SYSTEM AT SRI AND THROUGHOUT THE ARPA NET. RIGHT NOW I WOUDL LIKE TO HEAR FROM PEOPLE IN THIS CONFERENCE ABOUT EXPERIENCE WITH TELECONFERNCING. OR GETSUGGESTIONS FOR OTHERS TO CONTACT BY MAIL OR PHONE WITH THE ABOVE SET OF QUESTIONS.

11/26/73 14.45.31.RESOURCE ONE
HOPE YOU GOT THAT OK? R/O
HOPE

1

11/26/73 14.47.26.KARL ZINN
WHERE CAN I GET A LIST OF POEOPLE AND PROJECTS USING COMPUTERS TO ASSIST IN LEARNING EXCHANGE AND LIVING-LEARNING RESOURCES? I ASSUME THE FACE-TO-FACE CONFERENCE IN EVANSTON TODAY WILL PRODUCE SUCH A LIST OR UPDATE A PREVIOUS ONE.

11/26/73 14.52.02.KARL ZINN
11/26/73
I WOUJLD LLIKE TO ME ABLE TO MOVE ABOUT ORE EASILY IN THE CONFERENCE FILE. FOR EXAMPLE, I SEEM TO MISS COMMENTS MADE WHILE I EM ENTERING A COMMENT --OR WHEN I PRESS RETURN DOES SYSTEM GIVE ME ALL PREVUOUS COMMENTS. IN ANY CASE, I CAN NOT GO BACK EXCEPT TOTHE BEGINNING OF A DAY? AND CAN NOT SPECIFY A STARTING POINT EXCEPT WHEN ENTERING?

11/26/73 14.53.35.RESOURCE ONE
BEGINS PARTICIPATING

11/26/73 14.56.47.KARL ZINN

BEGINS PARTICIPATING

11/26/73 14.58.41.RESOURCE ONE
THIS OPPS ARE THERE ANY LINE EDITING FEATURES IN THE SYSTEM??
WERE HAVING A BIT OF TROUBLRE TRANSMITING OUR STUFF TO YOU HOPE TO HA
HAVE IT SOLVED SOON

11/26/73 15.00.30.RESOURCE ONE
SSAN FRANCISCO CALLING. SORRY FOR THE DELAY, BUT WE JUST DID THREE WEEKS OF PROGRAMMING IN 48 HOURS.
PRESENT ARE; LEE FELSENSTEIN, CHRIS MACIE, EFREM LIPKIN OF RESOURCE ONE, DAVE KAUFMAN OF PEOPLE'S COMPUTER CO., FRED MOORE OF INFORMATION NETWORK, MIJE MURNANE OF MEMO FROM TURNER, ALISON MCDONALD, CENTER FOR INNOVATIVE EDUCATION, COLIN CAMPBELL OF CENTER FOR INNOVATIVE EDUC.

ALSO MICHAEL ROSSMAN, UNAFFILIATED.

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11/26/73 15.03.18.KARL ZINN
RESOURCE ONE, I WOULD LIKE TO HEAR MORE ABOUT YOUR PLANS FOR MINI-SYSTEMS. DO YOU HAVE IN MIND STANDARDS FOR DATA FILES AND PERHAPS RPROGRAMS BY WHICH USERS OF SUCH A SYSTEM THROUGHOUT THE COUNTRY COULD EXCHNAGE? DO YOU THINK ABOUT DIRECT CONNECTIONS? AND WHAT ABOUT THE PROBLEMS OF INTERFACING WITH NEW AND INFREQUENT USERS WHO ARE NOT INTERSTED IN LEARNING ABOUT COMPUTERS, BUT JUST WANT TO MAKE SOME USE OF THE SYSTEM?

11/26/73 15.04.28.RESOURCE ONE
BEGINS PARTICIPATING

11/26/73 15.10.09.RESOURCE ONE
KARL ZINN CHECK BACK HERE LATER FOR ABOUT MINI'S WE HAVE THOUGHT'S OF SOME VISITERS TO SEND FIRST BUT I'LL TYXX TRY AND GET A SOLID DESCRIPTION TO ALL BEFORE THE DAY ENDS

11/26/73 15.11.25.KARL ZINN
I HAVE BEEN WONDERING HOW MANY PLACES IN THE COUNTRY HAVE SET UP ON A REGUL BASIS FOR "STORE FRONT" ACCESS BY THE PUBLIC TO EDUCATIONAL OR SERVICE ORIENTED COMPUTING. I KNOW OF PEOPLE'S COMPUTER COMPANY, AND I HAVE READ NEWS NOTES ON TERMINALS AVAILABLE (NYC?) TO ACCESS WHATEVER TIME SHARING SYSTEM. RECENTLY I SAW MENTION OF A COIN-OPERATED DESK-TOP COMPUTER)FOR LIBRARIES AND SUCH?).ALLAN KAY WAS PLANNING TYO GET INTO A STORE FRONT THIS FALL, AND I AM SURE THERE ARE OTHERS. PERHAPS THE NUMBER OF SUCH OPERATIONS, AND A LISTING WITH BRIEF ANNOTATIONS, WOULD HELP IN ARGUMENTS FOR MORE ATTENTION TO THIS LEARNING RESOURCES.
A SECOND QUESTIONS IS HOW MANY OFTHESE CAN OFFER COMPUTING WITH LITTLE OR NO TRAINING (OTHER THAN PROVIDED THROUGH THE TERMINAL)?

11/26/73 15.17.44.RESOURCE ONE
THE FUNCTION OF THIS DATA FILE "EXCHANGE" IS COLLECT COMMENT, IDEAS
THE FUNCTION OF THIS DATA FILE "EXCHANGE" IS COLLECT COMMENT, IDEAS
SIONS, AND PLANS FOR ACTION FOR ESTABLISHING A BAY AREA LEARNING CHANGE ALSO A MEANS FOR COMMUNICATING WITH THE PEOPLE WORKING ON STABLISHING A LEARNING WEB IN THE CHICAGO AREA. WE WILL PERIODICALLY SMIT THE NEW CONTENTS OF "EXCHANGE" TO EVANSTON'S COMPUTER OR THEIR USE. IF YOU DO NOT KNOW OR FULLY UNDERSTAND HOW TO USE OGIRS AND ADD INFORMATION ETC SCREAM "OPERATOR" AT THE TOP OF YOU LUNGS AND HE SHOULD COME RUNNING TO SHOW YOU THE INNER SECRETS OF THE MACHINE. SOME POINTERS TRY AND KEEP ITEMS SHORT AND WELL KEYWORDED BY IDEA THUS PEOPLE CAN ZERO IN ON THE PART OF YOUR THINKING THAT MOST INTERESTS THEM. ON EVERY ITEM HANG

A DATE AS A KEYWORD SO WE CAN SEGREGATE THINGS BY TIME. USE THE OLLOWING FORM: FOR NOVEMBER 25 USE NOV-26 AS A KEYWORD
DECEMBER 19TH USE DEC-19 AS A KEYWORD. FINALLY BE PATIENT IT TAKES A LITTLE TIME TO FULLY UNDERSTAAND THE SYSTEM. THANKS
QUESTION/REQUEST:
CAN ANYONE GIVE A BRIEF RUNDOWN ON WHO CLIFFORD BEERS [SIC?] IS?
-MARK SZPAKOWSKI, RESOURCE ONE

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11/26/73 15.19.14.RESOURCE ONE

/
INCARNATION OF A MESSAGE IN PUBLICALLY AVAILABLE FORM
(AS IN A PUBLICALLY ACCESSIBLE COMPUTER FILE)
MAY ACT TO MAKE COMMUNICATION MORE CONCRETE AND INTENSE
THAN IF THE MESSAGE WERE LEFT TO BE COMMUNICATED DIRECTLY
PERSON TO PERSON. YOUR MEMORY GETS SPREAD OUT PUBLICALLY--
THEREBY LEAVING YOU MORE OPEN TO REMINDER..
THE PUBLIC MAY REMIND YOU..
IS THIS A MEANS THEN FOR INCARNATING, SEDIMENTING, INFORMATION
CONTINUOUSLY AND INTERACTIVELY INTO THE ENVIRONMENT?
THE FACT THAT COMMUNICATION TAKES PLACE THROUGH A BUFFER--
ELECTRONIC COMPUTERS, IN THIS CASE--AND THUS THROUGH
A DELAY, MAY BE A SAVING GRACE. TIME MAY BE PROVIDED FOR
OUT THOUGHTS TO COLLECT, FOR OUR RESPONSE TO BE MORE THAN

INSTANTANESOUS, AND LESS PRESSURED.
DO WE CONTRACT SPACE AND EXPAND TIME?
/
ANY COMMENTS ON THE POSSIBILITY OF SUBSCRIBING TO
AN 800 TELEPHONE NUMBER TO MAINTAIN SUCH EXCHANGES?
/
SSAN FRANCISCO CALLING. SORRY FOR THE DELAY, BUT WE JUST DID
THREE WEEKS OF PROGRAMMING IN 48 HOURS.
PRESENT ARE: LEE FELSENSTEIN, CHRIS MACIE, EFREM LIPKIN OF RESOURCE

ONE, DAVE KAUFMAN OF PEOPLE'S COMPUTER CO., FRED MOORE OF
INFORMATION NETWORK, MIJE MURNANE OF MEMO FROM TURNER, ALISON

11/26/73 15.20.49.RESOURCE ONE
MCDONALD, CENTER FOR INNOVATIVE EDUCATION, COLIN CAMPBELL OF
CENTER FOR INNOVATIVE EDUC.
ALSO MICHAEL ROSSMAN, UNAFFILIATED.
/
MIKE MRNANE TALKING FROM RESOURCE ONE .. WE ARE ENTERING TEXT
THROUGH THE ROGIRS INFORMATION RETRIVAL SYSTEM TO BE
TRANSMITTED LATER TO THE CONFERENCE.
HI BERT.... FINALL ON.
NOTES FOR KEN SILBERT (AND ANY ONE ELSE INTERESTED)
RE: A TABLE DRIVEN DIALOG PROGRAM DEVELOPED AT DATA SERVICES
TIE LINE BY KIRK BRAINERD.
ADDRESS: 719 KENSINGTON RD.
SANTA MONICA CA. 90405
/
HELLO, THIS IS MICHAEL ROSSMAN AT RESOURCE ONE. X HI, NOEL MCINNIS,
ARE YOU THERE/ ID LIKE TO TALK WITH YOU, IF YOU CAN SAY HI BAK WITHIN
THE NEXT HOUR OR SO. AND HOWIS YOUR BOOK DOING/ END
/
THE PROGRAM IS WRITTEN IN FORTRAN IV , IT IS A GENERALIZED
DIALOG PROGRAM RUN BY TABLES. PARALLEL STRUCTURE HAS BEEN FOLLOWED
THROUGH OUT. FORTRAN IS STANDARD ASCII FORTRAN , THIS CHOICE
ALLOWS EASY TRANSFER OF THE PROGRAM FROM INSTALLATION
TO INSTALLATION.
FIRST, A GREAT DEAL OF WORK HAS BEEN DONE TO KEEP ROUTINES
TO LESS THAN ONE PAGE OF FORTRAN. EACH ROUTINE IS A LOGICLY

11/26/73 15.21.16.RESOURCE ONE
SEPERATE OPERATION. MODIFICATION OF THE SYSTEM IS VERY EASY AT
ANY LEVEL. BASIC CYCLY IS DIALOG --> ACTION --> DIALOG
SECOND, IN EITHER DIALOG OR ACTION THERE ARE TABLES THAT
THE USER SPECIFIES THE DISLAY TO BE SHOWN AND THE LINKAGE TO
OTHER TABLES FOR INTERPERTATION OF RESPONSED AD FURTHER BRANCHES

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11/26/73 15.22.24.RESOURCE ONE
THIRDLY, IT HAS NOW BEEN DEVELOPED TO THE POINT THAT KIRK HAS A DIALOG THAT WRITES DIALOGS. THIS BOOTSTRAPPING ABILITY WILL MAKE POSSIBLE A CONSTANTLY EVOLVING SYSTEM.
FINALLY WITH THIS SYSTEM IT IS EASY TO DESIGN A DIALOG ON PAPER, WRITE UP A FEW PASSWORDS THAT YOU WANT THE USER TO REPLY WITH IN ORDER TO GO TO ANOTHER DISPLAY, AND THE LINKAGES ALL IN A SIMPLE META DIALOG THAT IS BUILDING ALL THESE TABLES . WHEN IT IS COMPLETED YOU JUS TRANSFER OUT OF THE META DIALOG AND RUN YNUR NEWLY CREATED DIALOG.
I'M SURE KIRK WILL ANSWER ANY OTHER QUESTIONS. WRITE HIM AT THE ABOVE ADDRESS. I HAVE JUST SPENT TWO WEEKS WITH HIM LEARNING THE SYSTEM FROM TOP LEVEL DOWN TO THE FORTRAN CODE, ITS A BEAUTY.
/
RESOURCE ONE / BERKELEY HERE.
IN ILLICH'S CONCEPTION, BOTH THE LEARNING "WEB" AND THE CONTACTS MADE THROUGH THAT WEB DEMAND RE-CREATION. IN TERMS OF THIS CONFERENCE, THIS SUGGESTS THAT BEYOND ESTABLISHING THE NETWORKING, WE THINK OF HOW WE AS GROUPS/INDIVIDUALS ESTABLISH OUR OPENNESS TO BE LEARNED FROM [AND IF NOT AS "SCHOOLS", WHAT?] AND TO LEARN [I.E., WE AS GROUPS/INDIVIDUALS/NODES ARE

11/26/73 15.23.36.RESOURCE ONE
PEERS AS WELL AS EXPERTS AS WELL AS FACILITATORS]. AN INTERMEDIATE QUESTION CONCERNS HOW THE NETWORK AS SUCH MAY INPUT, STORE, AND OUTPUT CONTENT--LESSONS, EXPLANATIONS, CONCEPT COMMERCIALS, MESSAGES, PAST AND PRESENT DIALOGUES...ANY THOUGHTS OR EXPERIENCES?
/
BERT.. WILL SEE YOU TONIGHT. YOU WILL NOT BE ABLE TO GET ME AT RESOURCE ONE AS THIS WILL GO ON THE EVANSTON SYSTEM LATER TODAY. I'M OFF TO THE SCHOOL OF HOLOGRAPHY.
/
KIRK.... IF YO GET ON I'VE NOTICED WHAT WAS WRONG WITH OUR

EARLIER TRANSMITION ... AS A TTY YOU MUST HAVE CARRIAGE RETURN LINE FEED AT THE END OF EVERY LINE. I DON'T KNOW HOW TO DO CORRECTIONS BUT IT APPEARS THAT BACKSPACE DOESNT WORK . SEE YOU LATER. MIKE OFF
/
HI, THIS IS FRED MOORE FROM INFORMATION NETWORK 1921 MENALTO AVE MENLO PARK, CA. 94025 WE ARE TRYING TO SET UP A LOCAL SHARING NETWORK OF INFO, RESOURCES, TOOLS, SKILLS, SERVICES, CLASSES.... WHATEVER YOU WANT TO GIVE OR SHARE. OUR INTEREST IS IN CREATING AN ALTERNATIVE ECONOMY: NOT MONETARY EXCHANGE, NOT BARTER, NOT MARKETING, BUT COMMUNITY SHARING WEBS LIKE FOOD CONSPIRACIES, POT LUCKS, SWAPPING, CAR POOLS, TOOL SHARING CLUBS, MUTUAL AID

11/26/73 15.24.24.RESOURCE ONE
GROUPS, ETC. MORE COMPLETE EXPLANATION WILL BE SENT ON REQUEST WOULD LIKE TO HEAR OF SIMILAR ACTIVITIES AND PROJECTS ... ANY COMMENTS, IDEAS, ... THANKS.
/
HELLO THIS TOM DEEDS A STUDENT SEMINARIAN IN TE GRADUATE THEOLOGICAL UNION

IN BERKELEY. TODAY IS MY FIRST CONTACT WITH RESOURCE ONE. I AM INTEREESTED IN COMMUNICATIONS TECHNOLOGY, ITS SOI SOCIAL VALUE AND ITS MORAL OR IMMORAL USE. RESOURCE ONE STRIKES ME AS A
A PRETTY OPEN HUMAN PLACE ANYONE INTERESTED IN [illegible]

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11/26/73 15.29.12.KARL ZINN
SUGGESTIONS TO THE CONFERENCE ORGANIZERS:
INCLUDE NAMES AND ADDRESSES OF ALL CONFERENCE PARTICIPANTS IN SOME REPORT OF THE CONFERENCE, PERHAPS THE CAT NEWSLETTER IS A GOOD PLACE.
IN THE REPORTING OF THE CONFERENCE, ALLOW PARTICIPANTS TO REVISE OR AUGMENT THEIR STATEMENTS, ADD REFERENCES, ETC.
PURGE THE TALKD FILE, OR COPY IT OVER TO SAVE THE TRACE OF CONFERENCING, SO THAT NEW PERSON SHIHNING ON NEED NOT GET SUCH DETAIL IF THEY PREFER ONLY A SUMMARY.
KEEP UP THE INTERINSTITUTIONAL ACTIVITY, THE INITIATIVE YOU HAVE FOR SHARING WITHOUT REGARD TO GEOGRAPHY.

11/26/73 15.31.32.RESOURCE ONE
BEGINS PARTICIPATING

11/26/73 15.33.22.KARL ZINN
RESOURCE ONE, I ASSUME YOU DID NOT INTEND TO HAVE ALL OF THE RESOURCE ONE ENTIRIES GETTING ON TO THE NORTHWESTERN CAT SYSTEM. HOWEVER, IT IS INTERESTING TO LOOK IN ON THEM.

11/26/73 15.48.04.KARL ZINN
RESOURCE ONE, BECAUSE OF TRANSMISSION PROBLEMS SOME OF YOUR ENTIRES ARE GARBLED. IF YOU HAVE INFORMATION ABOUT ACTIVITIES THERE WHICH IS CONVENIENT TO SEND I WOULD APPRECITE IT.
KARL ZINN
U-M CRLT
109 E MADISON ST
ANN ARBOR, MI 48L04

11/26/73 15.57.14.KARL ZINN

BEGINS PARTICIPATING

11/26/73 16.17.09.KARL ZINN

BEGINS PARTICIPATING

11/26/73 16.17.42.KARL ZINN
IS ANYONE THERE?

11/26/73 16.24.12.AL ADLER

BEGINS PARTICIPATING

11/26/73 16.49.53.JIM SCHUYLER
BEGINS PARTICIPATING

11/26/73 16.51.21.AL ADLER

BEGINS PARTICIPATING

11/26/73 16.54.07.AL ADLER
SIGNING ON SECOND TIME IM GIVEN OPTION TO SKIP TEXT. COULD THIS NOT BE DONE THE FIRST TIME SIGNING ON AS I HAVE SEEN COMPLETE COPY OBTAINED BY SOMEONE ELSE. COULD SAVE MUCH TRANSMISSION WITH SUCH OPTION.

11/26/73 16.59.01.RESOURCE ONE
BEGINS PARTICIPATING

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11/26/73 17.00.03.RESOURCE ONE
THIS IS DAVE KAUFMAN FROM PEOPLE'S COMPUTER COMPANY, MENLO PARK
WE HAVE SEVERAL MINI'S AND TWO TTY'S WHICH TALK TO A TIME-SHARING
BIGGEE. WHAT WE DO IS WRITE COMPUTER ♦♦♦ GAMES ♦♦♦ THAT YOU CAN
A) TALK TO,
B) PLAY WITH,
C) FANTASIZE WITH

11/26/73 17.00.20.RESOURCE ONE
OUR LANGUAGE IS BASIC AND WE WOULD BE GLAD TO TRADE GAMES WITH
OTHER PEOPLE

11/26/73 17.00.31.RESOURCE ONE
ANY QUESTIONS?

11/26/73 17.01.26.RESOURCE ONE
FOR MORE INFO, USE KEYWORD= PCC
/
PLISO MCDNALD HERE FOR THE CENTER FOR INNOVATIVE DUCATION. A FEW
BLURBSTO OFFER. COVIVIALITY ISNOT EASY...COGNITIVE LEARNING ISD
DRY AND USELESS WITHOUT AFFECTIVE LINKS, PERSON TO PERSON, PERSON
TO INFORMATIN. OUR KEY WORDSARE: ITERPERSONAL COMMUNICATION, AFFECTIVE
ECUCATION, GROUP PROCESS, "ENCOUNTER" , PSCHODRAMA ROLE PLAYING.
WE DO A LOT OF TRAINIG OF PARAPROFESSIONAL GROUP FACILITATORS.
/
PCC IS ORGANIZED AS A NON-PROFIT CORPORATION, BUT THAT'S ALL THE
ATTENTION WE PAY TO STRUCTURED SELF-DEFINITION.

11/26/73 17.01.47.RESOURCE ONE
WHAT WE HAVE IS A PAIR OF STOREFRONTS IN MENLO PARK, ON A
COMMERCIAL BLOCK IN THE HEART OF THE RESIDENTIAL PART OF MENLO
PARK. ♦ ANYONE ♦ CAN WALK IN OFF THE STREETS, USE OUR COMPUTERS,
LIBRARY, PHONES, GAMES, ETC. ETC.

11/26/73 17.02.12.RESOURCE ONE
WE SPEND A FAIR AMOUNT OF TIME WITH SCHOOLS THAT US ↑E US FOR FIELD
TRIPS. WE ALSO OFFER CLASSES IN PROGRAMMING, GAME-PA↑LAYING (WHICH

IS JUST AN OPEN GAME-PLAYING SESSION BUT WITH SOMEONE AROUND YOU CAN
SA↑↑ASK QUESTIONS OF), AND WE'RE THINKING OF HOSI↑TING SOME 'SH↑NAPSHOT
MATHEMATICS' ENTERTAINMENT, LOADED WITH FOLKSY, DAY-TO-DAY DISCUSSION
OF SUPPOSEDLY ESOTERIC MATHEMATICAL IDEAS.

11/26/73 17.02.23.RESOURCE ONE
I GUESS WHEN I THINK ABOUT IT, WE'RE INTERESTED MAINLY IN DE-MYSTIFYING
CERTAIN THINGS THAT PEOPLE COULD OTHERWISE REALLY DIG.

11/26/73 17.04.11.RESOURCE ONE
/
RESOURCE ONE / BERKELEY MARK S. HERE
INFORMATION INTERCHANGE
[1] EXAMPLE--THIS CONFERENCE
[2] I APPRECIATE VERY MUCH MIKE ROSSMAN'S MUSE
I WOULD LIKE TO DALLY A PLAY WITH HER A LITTLE
[3] ANOTHER EXAMPLE--CELL MITOSIS AND MEIOSIS
[4] MITOSIS--REPLICATING, SPREADING INFORMATION
BROADCASTING
[5] MEIOSIS--INFORMATION COMING TOGETHER, SHARING, TRANSFORMING
A-FFECTION?

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[6] NON-SYNCHRONOUS MEMORY POOL MADE POSSIBLE BY COMPUTER/
SILICON/INORGANIC TECHNOLOGY ALLOWS OUR MESSAGE TO
SPREAD OUT, FLOAT, COME TOGETHER, INTERCHANGE PARTS
[7] AT PLAY IN THE FIELDS WE CREATE
WE ARE ALREADY CREATURES OF LOVING GRACE
HOW DO WE CREATE THE SPACE TO PLAY WITH THE MACHINES
WE CREATE?
[8] EXAMPLE PROJECT HERE IS THE COMMUNITY MEMORY--USER-
ACCESSIBLE "BULLETIN BOARD", MESSAGE EXCHANGE SYSTEM.
GIVEN FREEDOM, PEOPLE START PUTTING IN INTERESTING,
NON-RUN OF THE MILL STUFF. COMMUNAL TALK-TOGETHER?

16

HELLO TO
NOEL MCKINNESS
AND
CENTER FOR CURRICULUN DESIGN , NORTHWESTERN
HOW HAVE YOUR CLASS/ NONCLASSES GROWN?
WHAT IS HAPPENING IN YOUR (NEW THREE YEARS AGO) OFFICE AND

11/26/73 17.04.40.RESOURCE ONE
WHICH IF ANY DEPARTMENTS DO YOU INTERACT/ANSWER/TO/RELATE?
IVE BEEN CONSIDERING AN INTERDISIPLINARY APPROACH TO THE
FORMAL SCIENCES. NOT MUCH TIME TO DEVELOPE BUT WOULD LIKE SOME
FEEDBACK IF INTERESTED.
GOOD LUCKS. JAY BOLTON (FORMERLY OF ELF EDUCATION LIBERATION
FRONT) BASEMENT PROJECT ONE.

11/26/73 17.06.04.JIM SCHUYLER
TO AL ADLER -- YES, FIRST TIME ON IT IS VERY TEDIOUS TO SEE ALL OF
THE CONFERENCE SO FAR -- SO WE WILL SOON ALLOW YOU TO SKIP. BUT,
THE SUMMARIZING HAS TO BE DONE BY A HUMAN, SO CURRENTLY WE START A
NEW CONFERENCE PERIODICALLY WITH SUMMARIZED COMMENTS, AND CONTINUE
FROM THERE. THIS IS THE LONGEST (IN TERMS OF VOLUME) CONFERENCE WE
HAVE DONE TO DATE !

11/26/73 17.06.30.RESOURCE ONE
DAVE KAUFMAN AGAIN
OUR ADDRESS IS:

11/26/73 17.06.53.RESOURCE ONE
PEOPLE'S COMPUTER COMPANY
1921 MENALTO AVE.
MENLO PARK, CA. 94025

11/26/73 17.06.58.RESOURCE ONE
PHONE:

11/26/73 17.07.06.RESOURCE ONE
(415) 322-5
(415) 323-6117

11/26/73 17.07.19.RESOURCE ONE
P.S. - WE ALSO PUT OUT A NEWSPAPER/NEWSLETTER CALLED 'PCC'
IT COSTS US $ TO PUT IT OUT, SO WE ASK $4 FOR 5 ISSUES.
(1 YEAR SUBSCRIPTION - SCHOOLYEAR, THAT IS)

11/26/73 17.07.25.RESOURCE ONE

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11/26/73 17.10.35.RESOURCE ONE
BEGINS PARTICIPATING

11/26/73 17.12.49.JIM SCHUYLER
THIS IS BRUCE BREUNINGER FROM NORTHWESTERN CAI PROJECT. NOTE TO ALISON... I'M HIP TO WHAT A DRAG COGNITIVE LEARNING IS AND CAN DIG THE BEAUTY OF INTERPERSONAL RELATIONSHIPS IN ED THROUGH ROLE-PLAYING,SIMULATIONS, PSCHODRAMAS ET. AL. BUT I'M ALSO AN EMPIRICIST AT HEART SO HAVE YOU OR YOUR PEOPLE FOUND ANY WAY TO TEST THE AMOUNT OF AFFECTIVE LEARNING THAT MIGHT TAKE PLACE TO DETERMINE WHICH ED TECHNIQUE CAN DO THE TRICK THE BEST?

11/26/73 17.19.06.BRUCE BREUNINGER NU BEGINS PARTICIPATING

11/26/73 17.23.40.STAR

BEGINS PARTICIPATING

11/26/73 17.27.03.RESOURCE ONE
COULD YOU SUPPLY US NETHER-LANDS WITH A SUMMARY OF THE FACE TO FACE HAPPENINGS TODAY IN EVANSTON???

11/26/73 17.30.48.BOB JOHANSEN
BEGINS PARTICIPATING

11/26/73 17.33.17.RESOURCE ONE
WE'VE CLOSED OUT TALK AND WILL PASS THE TRRXANSCRIPT OF THE CONFERENCE LATTER TONIGHT AND TRY TO ANSWER AND COMMXXXXXANY QUESTIONS AND MAKE MMORE DIRECT COMMENTS ON THE PROCESS -EFREM

11/26/73 17.53.38.BOB JOHANSEN
THIS
IS ANYONE THERE?

11/26/73 17.55.52.BOB JOHANSEN
WE ARE COMING ON A LITTLE LATE. WHAT IS HAPPENING THERE IN FACE TO FACE MODE? I AM GLAD TO HEAR MORE FROM RESOURCE ONE. IT SOUNDS AS THOUGH YOU ALL HAVE A GOOD SESSION GOING.

11/26/73 17.59.10.BOB JOHANSEN
WE ARE WORKING ON VARIOUS EXPERIMENTS INVOLVING THE SOCIAL IMPACT OF COMPUTER CONFERENCING AND TELECONFERENCING IN GENERAL. AT PRESENT THESE INVOLVE A COMPUTER CONFERENCING SYSTEM DEVELOPED HERE AT INSTITUTE FOR THE FUTURE CALLED FORUM. I AM HAVING TROUBLE UNDERSTADNING IF I AM HERE ALONE OR NOT? IS THERE SOME WAY TO TELL THAT I DON'T KNOW. I'LL BE OFF FOR NOW AND CHECK BACK LATER.

11/26/73 18.33.21.JIM SCHUYLER
BEGINS PARTICIPATING

11/26/73 18.35.12.JIM SCHUYLER
HELLO BOB -- YES. THE ORACLE DOESN'T KNOW HOW MANY PEOPLE ARE USING IT YET. WE ARE GOING TO MAKE USE OF NEW SYSTEM CAPABILITIES BEGINNING LATER THIS WEEK, WHICH WILL ALLOW MORE FLEXIBLE CONFERENCING.

11/26/73 21.32.35.RESOURCE ONE
BEGINS PARTICIPATING

BEST COPY AVAILABLE

11/26/73 21.41.42.RESOURCE ONE
SORRY TO LAY SO MUCH WRITTEN WORD ON YOU THE FOLLOWING LONG WINDED ONES COME FROM MIKE, KEN AND EFREM I THINK IN THAT ORDER. IT SEEMS WE JUST HAVE A LOT TO SAY.
ONE ASSIDE ANYONE SHOULDXXXXX WHO DOUBTS THE NEED FOR COMPUTERS IN THIS PROCESS SHOULD VISIT THEIR LOCAL LIBARARY AND OBSERVE HOW MUCH ENERGY THEY PUT INTO CATALOGUING THEIR SLOWLY GROWING AND SLOWLY EXPIRING WORLD OF RESOURCES.. ANYONE WHO THINKS THAT A COMPUUTER IMPLIMENTATION WILL BE EASY HASN'T FOLLOWED THE TROUBLE WE'VE HAD JUST TRANSMITTING A FEW WORDS TO YOU FROM SF.
PS THE RESULT OF THE TRANSMITTION MAYBE A BIT MESSY BUT IX WITH ATTENTION IT MAKES SENCE=SORRY I WAS TRICKED= ANYTHING A COMPUTER CAN PULL APART YOU CAN PUT BACK TOGETHER!!!! TRANSMISSION FOLLOWS-GOOD NIGHT

11/26/73 21.42.11.RESOURCE ONE
MICHAEL ROSSMAN TALKING FROM RESOURCE ONE.

11/26/73 21.42.23.RESOURCE ONE
I HAVE BEEN TOLD THAT SOME GERMAN FELLOW HAS WRITTEN A BOOK ON COMPUTER DEMOCRACY, DOES ANYONE KNOWI IF IT HAS BEEN TRANSLATED IN USA/

11/26/73 21.43.38.RESOURCE ONE
IM NOT, VERY, NO, IM PRETTY IGNORANT ABOUT WHAT PEOPLE ARE ACTUALLY

DOING WITH COMPUTERS NOW I MEAN FOR DIRECTLY HUMAN USES RATHER THAN FOR BUSINESS. BUT MY MINIAMAL, MINIMAL CONTACT WITH COMPUTERS IN EDUCATIVE USES MAKES ME WONDER ABOUT THE ATTITUDES WITH WHICH THEYRE BEING PUT TO USE. IN CHAMPAIGN ILLINOIS A FRIEND TOOK ME THROUGH SOME OF THE PLATO SYSTEM PEOPLE HAVE BEEN REFERING TO WITH SUCH ADMIRATION. THE MECHANICAL SETUP AND THE CAPABILITIES I UNDERSTOOD SEEMED IMPRESSIVE

INDEED, BUT AS HE SHOWED ME MORE AND MORE OF THE PROGRAMS AND GAMES THAT YOUNG PEOPLE WERE SO BUSILY ENJOYING THMSELVES WO WITH IN THAT VERY ROOM, I GOT MORE AND MORE UNEASY. ALL THR PROGRAMS WERE SIMPLE LEARNING GAMES, DESIGNED TO LEAD CHI,LDREM TO ONE OR ANOTHER BIT OF PRETTY MECHANICAL KNOWLEDGE PRETTY MECHANICALLY -- INGENIOUS, BUT I COULDNT FEEL MUCH BEYOND TECHNICAL INTEREST IN TH C ACCOMPISHMENT. THE BIG FEATURE OF THE PLATO SYSTEM, AS I UNDERSTOOD IT -- BEYOND A ABILITY TO HANDLE A BUNCH OF USERS TOGETHER -- WAS THIS SCREEN, VIDEO SCREEN, WITH PERMITTED A LIMITED KNID KIND OF FEEDBACK BETWEEN USER AND PROGRAM -- LIKE YOU COULD TOUCH THE SCREEN TO SAY /HERE/, AND I

11/26/73 21.44.44.RESOURCE ONE
THINK DRAW SIMPLE THINGS ON IT THAT WOULD INPUT INTO STORAGE. BUT THE KINDS OF FIST APP, FIRST APPLICATIONS OF THESE CAPABILITIES THAT THE GRAD STUDENTS OR EDUCATORS OR WHOEVER HAD DREAMED UP WERE SIMPLY FOREIGN TO MY SENSIBILITY. I RECALL PARTICULARLY THE DEVICE WH9CH PUT A TEXT ON THE SCREEN AND GAVE YOU AN AUDIO READINGOF THE TEXT, AND LIT UP EACH WORD AS IT WAS SOUNDED -- ABOUT THE MOST NO NONSENSE WZY F T4, WAY OF TEZCHING READING I CAN IMAGINE. BUT THOUGH READING MUST BE TAUGHT, PREFERABLY WELL, THERE WAS SIMPLY NO OTHER FEATURE OF ALL THE SOFTWARE I SAW THAN, THAT BALANCED THIS RUTHLESS EFFICIENCY. I MEAN, THE MOST THEY DID WAS TO HAVE A DEVICE WHEREBY, WHEN A CHILD REQUESTED A STORY
, HE WOULD BE ASKED WHER
C DAMN MACHINE CLUMSI ME... A STORY, HED BE ASKED WITHER HE WANTED PME ABOUT BEARS OR FIRE EMEGINES; AND IF HE CHOSE THE BEARS, HE GOT TO SAY WHT WHAT COLOR THEBEARS COATW WAS. I ASKED IF ANYONE HAD TRIED TO DO PBOGRAMS FOR TH SORT OF GAMES I MYSELF INSTINCTIVELY WANTED TO PLAY ON THE MACHINE. THEY HAD EVIDENTLY THE CAPABILITY FOR THESE, E.G. COULD HAVE MADE ONE THAT WOULD HAVE PERMITTED THE MACHINE, WHEN IT CAME TO

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11/26/73 21.45.06.RESOURCE ONE
THE END OF WHAT IT KNEW TO SAY ABOUT THE BEARS WALK IN THE WOODS, TO

ASK THE CHILD HAT HAPPENED THEN, AND RECEIVE AND STORE IT SO THAT THE NEXT KID WHO WANTED A BEAR STORY WOULD GET MORE; BUT NOTHING OF THIS SORT HAD BEEN ATTEMPTED AS A PROGRAM.

11/26/73 21.46.09.RESOURCE ONE
I DONT WANT TO KNOW. I MEN KNOCK, B MY FRIEND OR HIS FRIENDS, I DO KNOW THINGS START SLOW, AND HOW HARD IT IS TO DESIGN EVEN THE SIMPLEST PROGRAMS, ETC. BUT WHAT IM TRYING TO SAY IS ABOUTTHE KIND OF THINKING THATS GOING ON, THE KINDS OF VALUES AND PRIORITIES THAT SEEM TO UNDERLIE MUCH DESIGN OF COMPUTER USER USE. PEOPLE OFTEN SOMETIMES UNKINDLY POINT OUT THAT SUCH STIFF MEACHANICAL EDUCATIONAL USES COME AT FIST ALSO BECUZ ITS ENGINEERS MAKING THESE SYSTEMS, AND WELL,YOU Y KNOW HOW UNCREATIVE AND UNEDUCATIONAL THEIR MINDS ARE. I THINK THIS IS A FLAT COPOUT. THE TRUTH IS MORE THAT EDUCATION, COMMERCE AND POLITICS ARE ALL GOING TO START MAKING STIFF AND MECHANICAL USES OF COMPUTER/HUMAN POETENTIAL BECAUSE THERE IS NO SYSTEM OF VALUES THAT INFORMS THEM ENOUGH TO DO OTHERWISE. AMERICANS CAN SEE IMMEDIATELY THE DESIREABILITY OF BEING ABLE TO STRAP A KID INTO O A COGNITIVE SKINNER BOX, GIVE HIM CANDY TO PLAY ITS KEYS, PROGRAMMED LEARNING CARRIED TO THE WORST DEGREE. EDUCATIONAL BUREAUCRATS WILL LOFE , LOVE IT, THEY DO LOVE IT, THATS WHY ITS HAPPENING. BUT WHERE ARE THE SPIRITS WHO WILL PROGRAM EDUCATIONAL COMPUTERS NOT FOR THE SAKE OF GETTING TH KIDSMORE EFFICIENTLY THRUGH

11/26/73 21.47.17.RESOURCE ONE
THE CURRICULUM THEY MUST EAT TO BE INTEGRATED INTO THE TECHNOLOGICAL ECONOMY, BUT FOR TE SAKE OF SHEER PLAY, DEVILRY AND IRRESPONSIBILITY, NONMEASURABLE RESULTS, UNOUTI, UNQUANTIFIABLE WASTES OF THE TAXPAHERS MONEY/ I MAY BE ALL WET ON THIS, IF I, IT IS SURELY A TERRIBLY FRAGMENTARY AND BIASED VIW OF THE WELLINTENTIONED PLATO PROJECT, AND IM SORRY IF I KNOCK IT. BUT CAN ANYONE THERE, AT PLATO, SAY SOMETHING MARKEDLY DIFFERENT ABOUT WHAT YOURE DOING AND WHAT ITS CONSEQUENCES ARE/ WHERE ARE THE USES OF TH COMPUTER -- NOT THE HYPOTHETICAL DREAMS, I CAN DRAM THEM MYSELF. BUT THE GENUINE SUBSIDIZED FANTASIES -- WHICH WILL TEACH THE USERS A DIRRERENT ATTITUDE TOWARDS MACHINES AND THMSELVES TH HTE MACHINE. THAN THEYVE GOTTEN AL LIFELONG IN AMERICA/ IN THIS SOCIETY OUR EXPERIENCE INCREASINGLY IS THT WE FIND OUSELVES RUN THROUGH OTHER ANONYMOUS PEOPLES PROGRAMS, WHICH DETERMINE OUR LIVES AND HE CONTENTS OF OUR MINDS. I THINK IF EDUCATIONAL COMPUTER USE STARTS OUT AS THIS, WITH MAYBE A TEENSY ICING OF SOMTHING ELSE ON TOP, IT WILL BE A LEVER IN THE HANDS O ATYPR, OR A TY... OF A TYRANNY FOR WHOIH NO SINGLE MAN IS RESPONSIBLE...
ONE LAST THOUGHT. I KNOW IM BLABBING, I DIDNT COME WITH A SPIEL THOUGHT

11/26/73 21.48.24.RESOURCE ONE
OUT, AND AM JUST SITTING AT THE KEYBOARD THINKING. BUT THE MEDIUM IS THE MESSAGE, OR RATHER THE PROCESS. WHAT IS THE EXPERIENCE LIKE USING THE COMPUTER IS QUITE AS IMPORTANT AS WHAT SPICIFIC CURRICULUM IS LEARNED THROUGH IT. IS IT TO BE OTHR PEOPLES PROGRAMS, ARE THE COMPUTERS TO FUNCTION AS ANSWERS TO CLSSSROOMS MORE AND MORE UNWORKABLE, SO THAT THOSE KIDS WELL ENOUGH DISCIPLINED INTERNALLY TO BE ABLE SO, TO STI, TO SIT AND DID, DIG BEING AT THE MECHANICAL TIT WILL PT, PROGRESSTO HIGH SOCIAL STATUS AND THEM AS CANT WILL BE THE UNLEARNED DREGS OF THE SOCIETY? WILL A DISABIL, DISABLING CHARACTER DISABILITY BE THE ONE WHICH MAKES ONE UNABLE TO ENDURE EXPLORING THE TAME FIELDS OF MECHANICAL PROGRAMMING/? HUH, THE SHIFT DOES WORK. END OF MUSE.

THE COMMUNITY MEMORY SYSTEM CURRENTLY BEING OPERATED BY RESOURCE ONE SATISFIES MANY OF THE REQUIREMENTS FOR A LEARNING WWEB. IT IS ESSENTIALLY A GENERAL INFORMATION RETREIVAL SYSTEM MODIFIED FOR PUBLIC ACCESS.

EDUCATION., HOWECER, IS NOT THE PRIMARY FOCUS OF COMMUNITY MEMORY (EXCEPT IN THE BROADEST SENSE). IT IS INSTEAD UNFOCUSED, SUBMITTED TO A CANDID PUBLIC WITHOUT

20

11/26/73 21.49.36.RESOURCE ONE

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RESTRICTION OR CONSTRAINT. ANY ITEM OF INFORMATION THE USER FEELS LIKE ADDING TO THE DATA BASE IS ACCEPTED, TO BE FOUND BY ITS KEYWORDED DIMENSIONS AND ASPECTS BY SOME FUTURE SEARCHER.

/

THE BERKELEY COMMUNITY IS OF COURSE PREOCCUPIED WITH EDUCATION AND A NUMBER OF OFFERS OF INSTRUCTION HAVE APPEARED. MANY OF THEM ARE RELATED TO MUSIC, LANGUAGES, AND TO VARIOUS MEDITATION DISCIPLINES. SOME ITEMS DESCRIBE COURSES OFFERRED BY VARIOUS ALTERNATIVE SCHOOLS AND FREE UNIVERSITIES. IN

ONE CASE A USERS REQUEST FOR A SOURCE OF GOOD BAGELS IN THE BAY AREA WAS MET WITH AN O

11/28/73 12.45.35.C.A.T.

BEGINS PARTICIPATING

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>END
 OK
11/28/73  14.11.05.
 ...LAST LESSON                          JOB TOTAL ...
   5226  (SECONDS     ELAPSED TIME          )  5244
  16203  (MILLISECONDS  CPU TIME           )
    3.1  (MILLISECONDS  PER SECOND         )
 $ 2.57  (             JOB COST            )$ 3.68
 $ 1.45  (           CONNECT-TIME          )$ 1.46
     16  (          DISK ACCESSES          )
 $ 2.77  (  PROJECTED COST PER HOUR        )$ 3.53



11/28/73  14.11.21.
 PLEASE TYPE  %LOGOUT
 OR PRESS "CR" ("RETURN") TO
 REPEAT THE LESSON

>%LOGOUT

DAYFILE AS OF  14.11.42.
CAI
LOADA,DAI.
LOGOUT
----CP--------PP--------IO---
   16.460    56.963    92.348
JOB COST $    3.39
APPROX BALANCE $     45.17
MAX DISK SPACE USED (PRUS) 760
END OF JOB  (NO. 36)

OFF AT 14.11.50. 11/28/73 TERMINAL IDLE 1 07 NU 6400
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